User's Manual

CAMILEO X100

TOSHIBA

Leading Innovation

Introduction

Welcome and thank you for choosing a TOSHIBA product.

For your convenience, your TOSHIBA product is furnished with two guides:

a) a Quick Start Guide, and

b) this comprehensive PDF User’s Manual.

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Section 1
Getting to Know Your Camcorder

Overview

The camcorder with 10 Mega Pixel sensor can take H.264 movies. By way of using H.264 technology, more videos can be taken within certain amount of memory. High quality images with up to 16 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

The camcorder features 3" LCD touch panel which is an ideal platform for you to operate your camcorder. The menu options are accessible with your finger. With the touch panel, you can select the options directly and quickly.

The camcorder also features movie recording at an HD resolution of 1920x1080. You can also connect it to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV.

Moreover, the camcorder has an advanced uploading feature. With the exclusive built-in **YouTube Direct** application, you can upload the videos captured by the camcorder to YouTube more effortlessly .

ISO sensitivity and color balance can either be adjusted automatically or changed manually. A 10x digital zoom helps you to control over the movies and pictures you take.

The varied effect options, such as Time Lapse and Slow Motion, make recording more fun.

The built-in memory allows you to take pictures and to record movies without a memory card. The memory card slot allows users to increase the storage capacity.

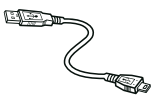
Note

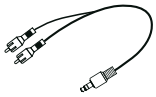
Partial memory of the built-in memory is used for the camcorder's Firmware code.

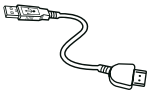
Check the Components

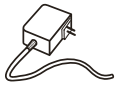
Unpack the package and make sure all standard accessories listed are included:

Camcorder


USB Cable


AV Cable


HDMI Cable


AC-Adaptor

Remote Control

Lithium-io Rechargeable Battery*

Quick Start Guide

CD-ROM (Software & User's Manual)

Cloth Bag

Cleaning Cloth

Lens Cover Set (Lens cover & strap)

Warranty Leaflet

***preinstalled in camcorder device**

Note

Please remove the lens protect film on lens before use.

Safety Instructions

1. Do not drop, puncture or disassemble the camcorder; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Do not expose the camcorder to high temperature or leave it in direct sunlight. Doing so may damage the camcorder.
4. Use the camcorder with care. Avoid pressing hard on the camcorder body.
5. For your own safety, avoid using the camcorder when there is a storm or lightning.
6. Do not use batteries of different specifications. Doing so may lead to the potential for serious damage.
7. Remove the battery during long periods between usage, as a deteriorated battery may affect the functionality of the camcorder.
8. Remove the battery if it shows signs of leaking or distortion.
9. Use only the accessories supplied by the manufacturer.
10. Keep the camcorder out of the reach of infants.
11. Risk of explosion if battery is replaced by an incorrect type.
12. Dispose of used batteries according to the instructions.

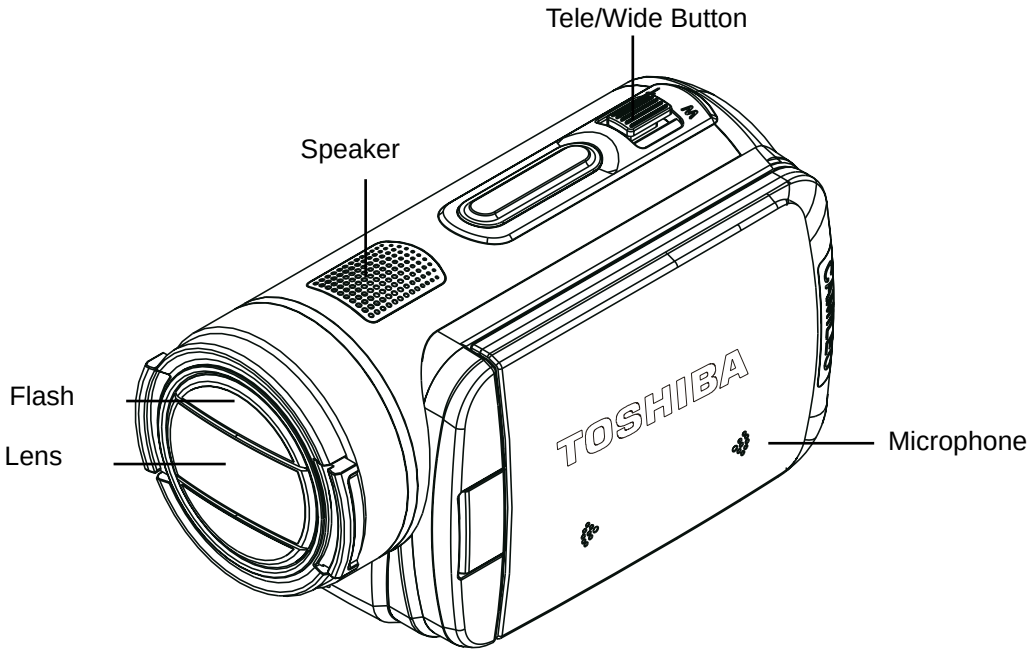
System Requirements

- Microsoft Windows XP/Vista/7
- Intel Pentium 4, 2.4GHz or above
- 512 MB RAM
- CD-ROM Drive
- 1 GB free HDD space
- Available USB port
- 16-bit Color Display

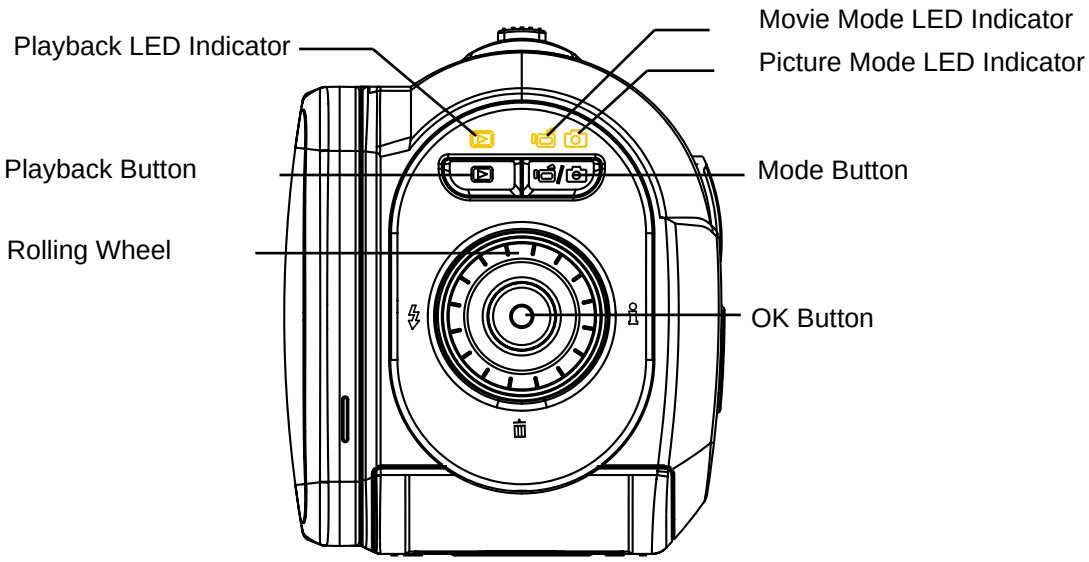
Note

The LCD screen is manufactured using extremely high-precision technology. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

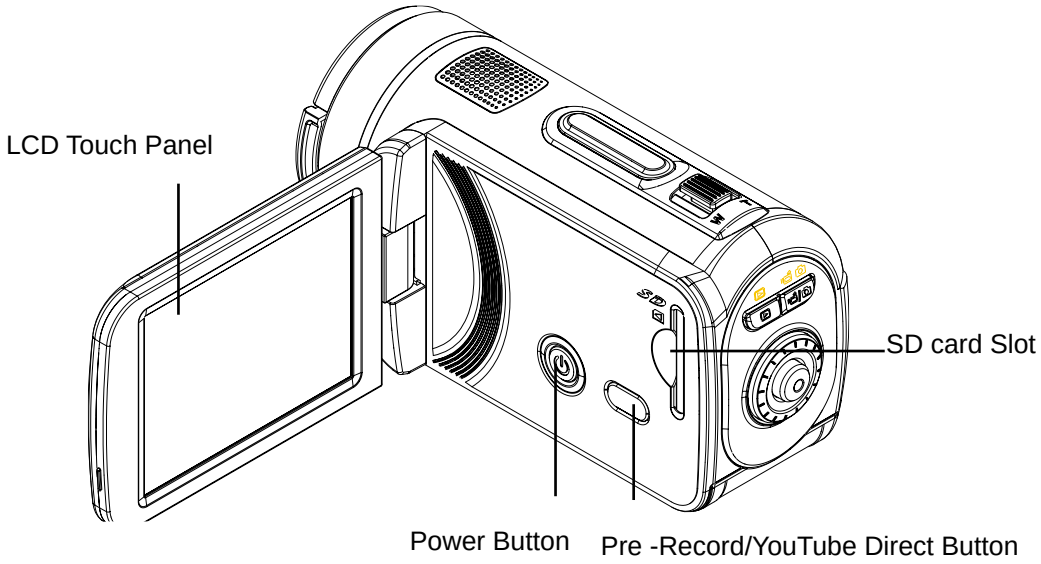
Front View

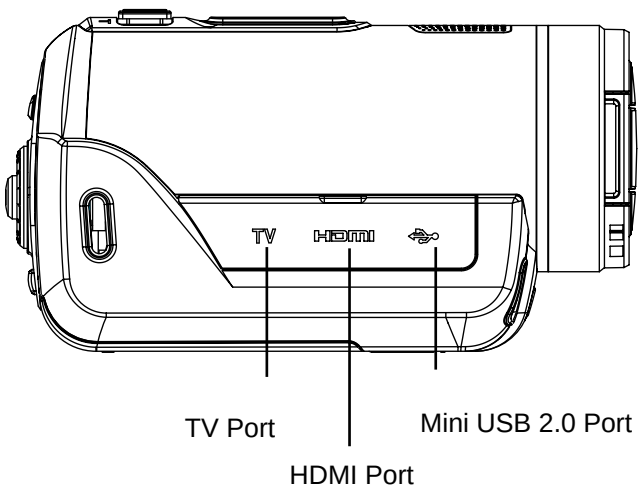


Rear View

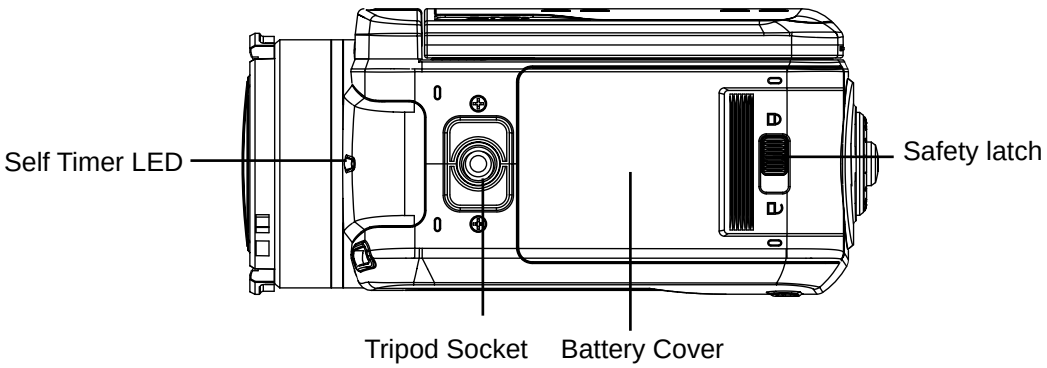


Side View





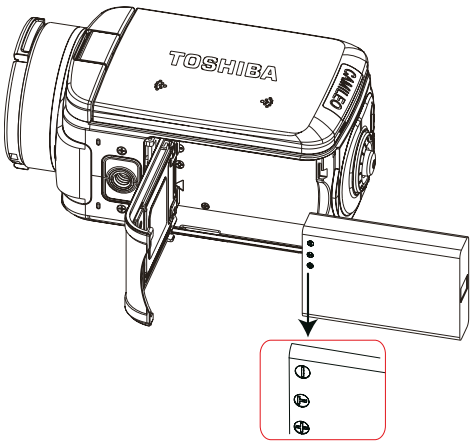
Bottom View



Section 2
Getting Started

Loading the Battery

Before using the camcorder, users must load the Lithium-ion rechargeable battery come within the package.



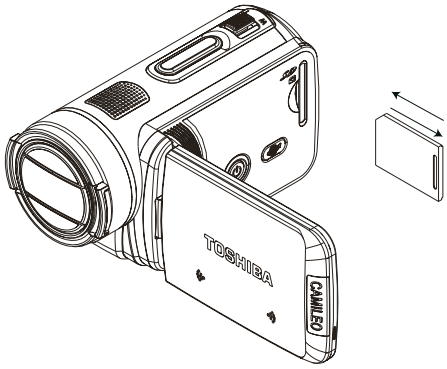
1. Slide the safety latch to the unlocked position and open the battery cover.
2. Insert the battery according to the correct polarity marks (+ or -).
3. Close the battery cover firmly, and slide the safety latch to the locked position.

Note

Please remove the insulator on battery connection before use.

Inserting and Removing an SD Card (Optional)

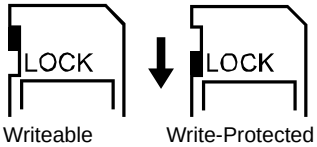
The camcorder comes with an internal memory which allows you to store pictures and movies. You can expand the memory capacity by using an optional SD/SDHC memory card.



1. Insert the memory card into the slot. Please refer to the figure on the right side.
2. To remove an installed SD card, press the card inwards to release it.
3. When the card pops out, gently remove it from its slot.
4. Recommended memory capacity: 1GB and above.

Note

- When a memory card is fitted, movies/pictures are saved on the card rather than on the built-in memory.
- *Protecting Data on an SD Card: SD Card is read-only when it is locked. No pictures or movies can be recorded when the SD card is locked. Make sure the lock is on the writeable position before recording any media.*



Writeable position

Write-Protected Position

Turning the Camcorder On and Getting Started

- To turn on the camcorder:
  1. Flip out the LCD panel; the camcorder will turn on automatically.
  2. Or press Power Button for one second to turn it on.

- To record movies: Press Mode Button or touch on the screen to switch to the Movie Record mode .(The Movie Mode LED Indicator will light up.) Press OK Button to record movies.

- To take a picture: Press Mode Button or touch on the screen to switch to the Picture Record mode. (The Picture Mode LED Indicator will light up.) Press OK Button halfway down until the focusing frame turns from white to green. Then, press it fully down to take pictures.

Focusing Frame: White	Focusing Frame: Green

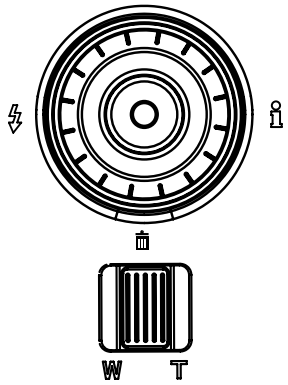
- To take a picture during movie recording: When recording movies, press Mode Button ( ) to capture the image. The Dual record icon( ) appears on the LCD monitor.
- To view stored movies and pictures: Press Playback Button or press on the screen to switch to the Playback mode. (The Playback LED Indicator will light up.) Press Mode Button or touch on the screen to switch between Movie Preview Screen and Picture Preview Screen.

Turning the Camcorder Off

- To turn off the camcorder: You can either press the Power Button for one second, or you can place the LCD panel back to its original position.

Section 3
Record Mode

Button Function

	**Rolling Wheel:** Rotate to move between the wheel menu options. **Right Button:** LCD Information ON/OFF. In Record menu, press to switch to the submenu. **Left Button:** Flash Auto/Red-Eye-Reduction/Digital Light/ Flash OFF. In Record menu, press to return to the main menu. **Up Button:** Move between the option items. **Down Button:** Delete the current or all movies/pictures. Move between the option items. **OK Button:** 1. Validate the setting. 2. In Movie Record Mode, press to take movies. To stop recording, press it again. 3. In Picture Record Mode, press to take pictures. **Tele Button :** Zoom In **Wide Button :** Zoom out
	Playback Button: 1. Switch between Record / Playback Mode. 2. For quick review, press it after recording. 3. In Record menu, press to exit.
	Mode Button: 1. Switch between Movie Mode and Picture Mode. 2. When recording movies, press to capture the image.
	Power Button: Press down for one second to turn on or turn off the camcorder.
	Pre-Record/YouTube Direct Button: In Record Mode, press to activate the function that the movies are recorded 3 seconds before the OK Button is pressed.

LCD Monitor Information

The indicators shown below may display on LCD when movies and pictures are recorded:

(1)	Movie Resolution	
	FH+	FHD (1080i 60)
	FH	FHD (1080p 30)
	HD+	HD (720p 60)
	HD	HD (720p 30)
	SD	VGA (4:3)
		Slow Motion (Record movies at 320x240 resolution.)
	Picture Resolution	
		High (16 MP)
		Standard (10 MP)
		Low (3 MP)
(2)	00:05:30	Recording time of the movie that can still be taken at current resolution
	71	Number of images that can still be taken at current resolution
(3)		Self-timer enabled
		Dual Record
(4)		Stabilization
(5)	PRE	Pre-Record Mode
	24H	Time Lapse

(6)	Scene	
		Skin
		Night
		Backlight
(7)		Macro Position Focusing
(8)		Manual White Balance
(9)		Motion Detection
(10)		Zoom meter: 1X~100X (10X Optical zoom and 10X Digital zoom)
(11)		Record Menu
(12)		Playback Mode
(13)		Movie/Picture Record Mode
(14)	Movie Mode	
		Digital Light
	Picture Mode	
		Flash Auto
		Red Eye Reduction
		Digital Light
		Flash Off
(15)		SD Card Inserted
(16)		Battery: full power
		Battery: medium power
		Battery: low power
		Battery: empty power
		DC power mode

Note

Scene: B/W / Classic / Negative effect can be previewed immediately without indicator on the LCD.

Movie Recording

- In Movie Record Mode (The Movie Mode LED Indicator lights up), press OK Button to start recording. When a movie is being recorded, a time indicator will display on the LCD monitor. To stop recording, press OK Button again.
- Optional function
  1. Dual record: press Mode Button ( ) to capture the image. The Dual record icon( ) appears on the LCD monitor.
- Press Playback Button to view the recorded movies.
- Five resolution settings are available:

Video Quality	
FH+	FHD (1080i 60)
FH	FHD (1080p 30)
HD+	HD (720p 60)
HD	HD (720p 30)
SD	VGA (4:3)

Note

- *The image resolution captured during movies recording is the same as the video resolution.*
- *The flash can not be used when capturing image during movies recording.*

Using the Pre-Record Function

- The Pre-record function ensures that you will not miss any critical recording opportunities, The movies are recorded 3 seconds before the OK Button is pressed.
- To use the Pre-Record function:
  1. Press the Pre-Record Button ( ) in Record Mode. The Pre-Record icon( ) appears on the LCD monitor.
  2. Aim the camcorder at the subject and position it securely.
  3. Press the OK Button to start recording. (The camcorder records 3 seconds before you actually press the OK Button.)
- To use the function again, set it again.

Note

- *Time Lapse function can not be used when the Pre-Record function is activated.*

Picture Recording

- In Picture Record Mode (The Picture Mode LED Indicator lights up), press OK Button halfway down until the focusing frame turns from white to green. Then, press it fully down to take a picture.
- Press Playback Button to view the picture.
- Three resolution settings are available:

Image Quality	
	High Quality:16 Mega Pixels
	Standard Quality:10 Mega Pixels
	Low Quality:3 Mega Pixels

Using Flash or Digital Light Function

- This camcorder has three flash settings and one setting to allow you to extend the brightness of the objects that are dark or in the shadow. Using Left Button to change the settings.
  1. **Flash Auto ( ):** The flash fires automatically according to light conditions. Use this mode for general photography. (Picture Recording Only)
  2. **Red Eye Reduction**( ): The pre-flash will fire to reduce the red-eye effect. (Picture Recording Only)
  3. **Digital Light** ( ): To extend the dynamic range for backlight and high contrast sense so that the objects will be brighter and clearer.
  4. **Flash Off ( ):** The flash will not fire under any circumstances. Use this mode when taking images in a place where flash photography is prohibited, or when the subject is distant (beyond the range of the flash). (Picture Recording Only)

Note

The flash will be disabled automatically when the battery power is low ( ).

Using Zoom Function

- The zoom magnifies images when recording movies or taking pictures.

1. To zoom in/out, press the Tele/Wide Button.
2. It can be set from 1X~100X (10X Optical zoom and 10X Digital zoom).

Options for Record Menu

Movie Record Mode Menu

Movie Resolution	White Balance	Scene	Effect
• FHD (1080i 60) • FHD (1080p 30) • HD (720p 60) • HD (720p 30) • VGA (4:3)	• Auto • Daylight • Fluorescent • Tungsten	• Auto • Skin • Night • Backlight • B/W (Black/White) • Classic • Negative	• Stabilization • Macro Mode • Motion Detect. (Motion Detection) • Slow Motion • Time Lapse

Picture Record Mode Menu

Picture Resolution	White Balance	Scene	Effect
• High (16MP) • Std (10MP) • Low (3MP)	• Auto • Daylight • Fluorescent • Tungsten	• Auto • Skin • Night • Backlight • B/W (Black/White) • Classic • Negative	• Self-Timer • Macro Mode • ISO

Operations for Record Mode

Operation	Screen
1. Touch (on-screen icon) in Record Mode. The wheel menu will show on the screen.	
2. Scroll the wheel menu on the screen lightly with your finger to move between the options, which are Resolution, Scene, Effect, White Balance, and Setting. 3. Submenu will pop up while stopping on each option. 4. Touch to select the specific option you want to adjust, then touch [OK] to validate the setting. 5. Or touch the Return icon ( ) to exit without any change. 6. Touch / on the screen to change between the pages.	

Movie Resolution

Five resolution settings are available.

- **FHD(1080i 60):** Record movies at 1920x1080i 60 resolution.
- **FHD(1080p 30)**: Record movies at 1920x1080p 30 resolution.
- **HD(720p 60):** Record movies at 1280x720p 60 resolution.
- **HD(720p 30):** Record movies at 1280x720p 30 resolution.
- **VGA(4:3):** Record movies at 640x480p 30 resolution.

Operation	Display Screen
1. In Movie Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Resolution]. The submenu of Resolution pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

Picture Resolution

Three resolution settings are available.

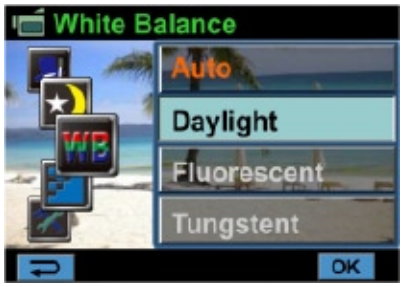
- **High(16MP):** Shoot pictures at 4608x3456, 16MP quality.
- **Std(10MP)**(Standard)**:** Shoot pictures at 3664x2748, 10MP quality.
- **Low(3MP):** Shoot pictures at 2048 x 1536, 3MP quality.

Operation	Display Screen
1. In Picture Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Resolution]. The submenu of Resolution pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

White Balance

The camcorder adjusts the color balance of images automatically. Three manual white balance settings are available:

- **Auto:** The camcorder automatically adjusts white balance.
- **Daylight:** Under outdoor condition.
- **Fluorescent:** Under fluorescent light condition.
- **Tungsten:** Under tungsten light condition.

Operation	Display Screen
1. In Movie/Picture Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [White Balance]. The submenu of White Balance pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

Scene

You can select the mode according to the scene condition.

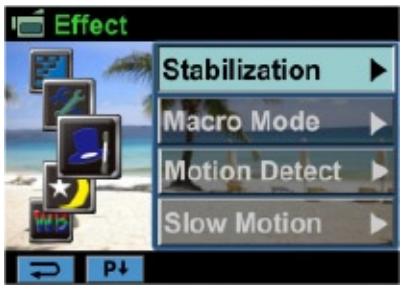
- **Auto:** Shoot without any special effect on the image.
- **Skin:** Shoot with an effect that makes skin tones more natural.
- **Night**: Use Night Mode for night scenes or low light conditions.
- **Backlight:** You can take shots when the bright light is behind the subject.
- **B/W** (Black/White)**:** The image is converted to black-and-white.
- **Classic:** The image is converted to a sepia look.
- **Negative:** The image is converted as the negative of the normal

Operation	Display Screen
1. In Movie/Picture Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Scene]. The submenu of Scene pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

Note

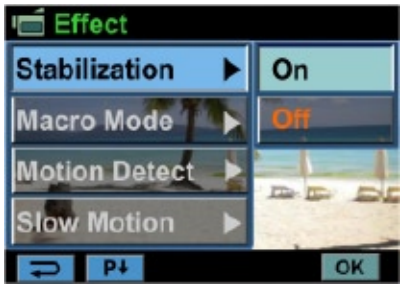
To avoid blurry pictures, place the camcorder on a flat, steady surface, or use a tripod when taking shots in the Night Mode.

Movie Effect

Operation	Display Screen
1. In Movie Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Effect]. The submenu of Effect pops up. 3. Touch the desired Effect option to enter its option screen. 4. The Movie Effect submenu contains 5 options--Stabilization, Macro Mode, Motion Detection, Slow Motion, and Time Lapse --for you to adjust the camcorder's settings.	

Stabilization

Record with an effect of reducing camcorder shake to result in more stable videos.

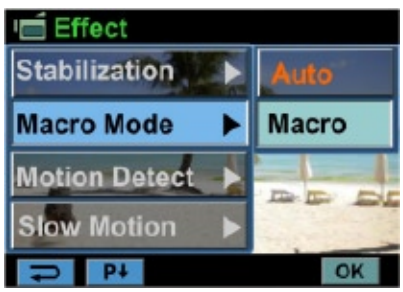
Operation	Display Screen
1. In the Effect submenu, touch [Stabilization] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Note

Stabilization doesn't apply on 1080 i60.

Macro Mode

- Auto: The camcorder adjusts the focus automatically.
- Macro( ): The camcorder adjusts the focus with priority on close- up objects. Shoot in Macro mode when the objects are located in 1 cm(0.39 inch)~Infinite (setting to the Wide side)/60 cm(23.4 inch)~Infinite(setting to the Tele side).

Operation	Display Screen
1. In the Effect submenu, touch [Macro Mode] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

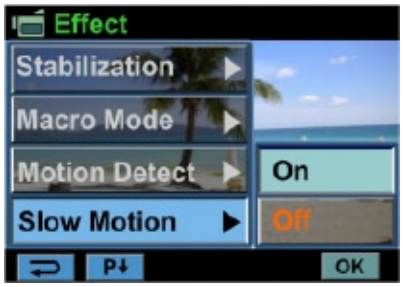
Motion Detection

Record videos automatically when the camcorder detects a movement.

Operation	Display Screen
1. In the Effect submenu, touch [Motion Detect.] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting. 4. Camcorder will start to record video automatically if it detects a movement. Stop recording if it does not detect a movement.	

Slow Motion

Record videos with slow motion effect. When the video is played, the playback time will be longer than the actual recording time.

Operation	Display Screen
1. In the Effect submenu, touch [Slow Motion] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Time Lapse

Record still images at specific intervals you can set and play them as one movie file.

- Off: Disable Time Lapse.
- 1 Sec.: Record one frame per second.
- 3 Sec.: Record one frame every 3 seconds.
- 5 Sec.: Record one frame every 5 seconds.

Operation	Display Screen
1. In the Effect submenu, touch [Time Lapse] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Note

- *Stabilization function can not be used when Time Lapse function is activated.*

Picture Effect

Operation	Display Screen
1. In Picture Record Mode, touch (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Effect]. The submenu of Effect pops up. 3. Touch the desired Effect option to enter its option screen. 4. The Picture Effect submenu contains 3 options --Self Timer, Macro Mode, and ISO-- for you to adjust the camcorder's setting.	

Self-Timer

The self-timer allows you to take pictures with a ten-second time delay. The self-timer light on the front of the camcorder will also blink. The speed of blinking will increase just before the picture is taken.

Operation	Display Screen
1. In the Effect submenu, touch [Self-Timer] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Macro Mode

- Auto: The camcorder adjusts the focus automatically.
- Macro( ): The camcorder adjusts the focus with priority on close- up objects. Shoot in Macro mode when the objects are located in 1 cm(0.39 inch)~Infinite (setting to the Wide side)/60 cm(23.4 inch)~Infinite(setting to the Tele side).

Operation	Display Screen
1. In Effect submenu, touch [Macro Mode] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

ISO

The camcorder adjusts the ISO sensitivity of its images automatically. Three manual ISO sensitivity settings are available. (800/1600/3200) The larger the number is, the higher the ISO sensitivity is set to. Select a small number to shoot a smoother image. Select a large number to shoot an image in a dark location or to shoot a subject moving at high speed.

Operation	Display Screen
1. In the Effect submenu, touch [ISO] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

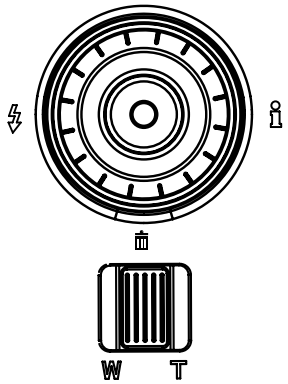
Note

The image may become noisy when the ISO number is large.

Section 4
Playback Mode

Button Function

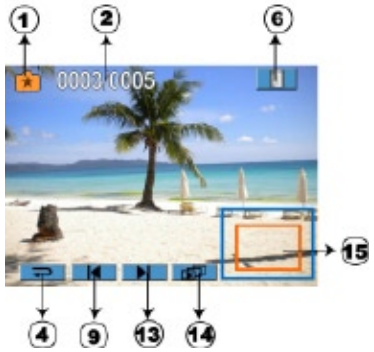
The Buttons have the following functions in Playback Mode.

	**Rolling Wheel: Rotate to move to the previous/next movie/ picture.** **Right Button:** LCD Information ON/OFF; Fast forward. **Left Button:** Fast rewind. **Down Button:** Delete the current movie/picture or all movies/ pictures. **OK Button:** 1. Enter Movie/Picture Playback Mode. 2. Validate the setting. 3. In Picture Playback Mode, press to start/stop the slideshow. **Tele Button :** Zoom In **Wide Button :** Zoom out
	Mode Button: 1. Switch between Movie Preview Screen and Picture Preview Screen.
	Playback Button: 1. Switch between Record /Playback Mode. 2. Return to the previous screen.
	Pre-Record/YouTube Direct Button: In Movie Playback Mode, press to select the current movie to upload to YouTube.

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:

Playback Preview Screen

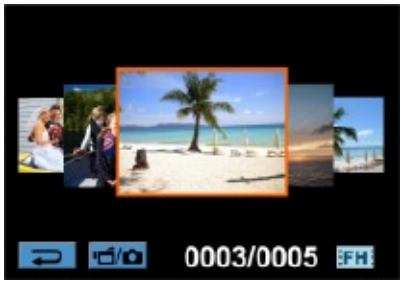
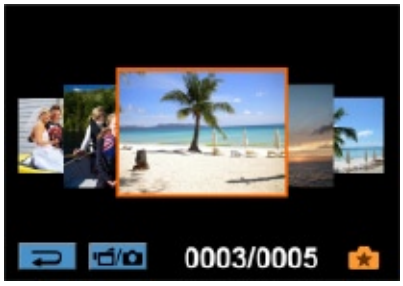
Movie Playback Mode	Picture Playback Mode
	

(1)	Movie Resolution	
	FH+	FHD (1080i 60)
	FH	FHD (1080p 30)
	HD+	HD (720p 60)
	HD	HD (720p 30)
	SD	VGA (4:3)
		Slow Motion (320x240)
	Picture Resolution	
		High (16MP)
		Standard (10MP)
		Low (3MP)
		Dual Record (The image resolution captured during movies recording is the same as the video resolution.)

(2)	**0003/0005**	Current number/ Total number of picture/movie.
(3)		Movie/Picture Preview Screen On
(4)		Return to the previous screen/ Switch to Record Mode
(5)	00:05:30	Movie playback time counter
(6)		Delete
(7)		Upload selected movies to YouTube
(8)		Volume
(9)		Previous movie/picture
(10)		Movies fast rewind
(11)		Movies Play
		Movies Pause
(12)		Movies fast forward
(13)		Next movie/picture
(14)		Slideshow
		Slideshow stop
(15)		Magnification Indicator

Operations for Playback Mode

The Playback Mode is for viewing and managing movies and pictures on the built-in memory or on an SD Card.

Operation	Display Screen
1. Press Playback Button ( ) or press on the screen to switch to the Playback mode.	
2. In the Playback preview screen, press Mode Button or touch on the screen to switch between the Movie mode and the Picture mode. 3. Sweep to the left to go to the previous picture/movie; sweep to the right to go to the next picture/movie. 4. Touch on the picture/movie to go to Picture/Movie Playback Mode.	 

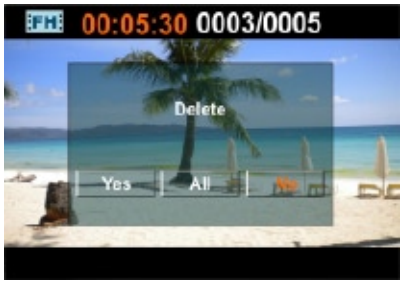
Movie Playback

Operation	Display Screen
1. When in Movie Playback mode, touch / to play or pause the movies. 2. Sweep to the right or touch to go to the previous movie; sweep to the left or touch to go to the next movie. 3. While playing movies, touch / to fast rewind/ forward. 4. Touch to increase the volume; touch to reduce the volume. 5. Touch ( )to exit. 6. Press YouTube Direct Button to select the existing movies to upload to YouTube.	

Note

When the LCD is idle for a few seconds, the playback function icons will disappear automatically.

Delete Movies

<table>
<tr><th>Operation</th><th>Display Screen</th></tr>
<tr><td>1. Touch to go to the Delete option screen.</td><td>
</td></tr>
<tr><td rowspan="2">2. Touch [Yes] to delete the current movie or [No] to cancel the operation and to exit; touch [All] to delete all movies.
3. Before all movies are about to be deleted, a confirmation screen will appear; touch [Yes] to execute the operation and [No] to cancel the operation.</td><td> 
</td></tr>
<tr><td>
</td></tr>
</table>

Note

- *If a memory card has been inserted, you can only delete those movies stored on the card.*
- *Movies on a written-protected memory card cannot be deleted.*

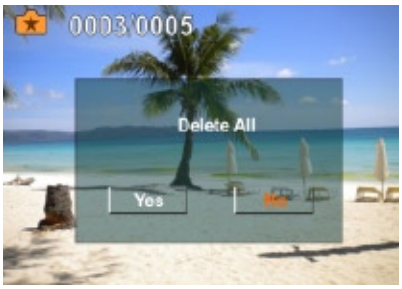
Picture Playback

Operation	Display Screen
1. When in the Picture Playback mode, sweep to the right or touch to go to the previous picture; sweep to the left or touch to go to the next picture. 2. While the picture is selected, press on the screen as well as go up to enter Magnification Mode.(The magnification Indicator appears on the screen) 3. In the Magnification Mode, sweep to the top to zoom in or to the bottom to zoom out. 4. To navigate the magnified picture, press on the screen and move as well. (The inner Magnification Indicator turns red) 5. Press OK Button or sweep to the bottom to exit the magnification mode. 6. Touch / to start or to stop the slide show. 7. Touch ( )to exit.	

Note

When the LCD is idle for a few seconds, the slideshow function icons will disappear automatically.

Delete Picture

Operation	Display Screen
1. Touch to go to the Delete option screen.	
2. Touch [Yes] to delete the current picture or [No] to cancel the operation and to exit; touch [All] to delete all pictures. 3. Before all pictures are deleted, a confirmation screen will appear; touch [Yes] to execute the operation and [No] to cancel the operation.	 

Note

- *If a memory card has been inserted, you can only delete those pictures stored on the card.*
- *Pictures on a written-protected memory card cannot be deleted.*

Section 5
Setting Your Camcorder

Setting Menu

Operation	Display Screen
1. Touch (on-screen icon) when in Record Mode. The Record wheel menu will show on the screen. 2. Scroll and stop on [Setting]. The submenu of Setting pops up. 3. The Setting submenu contains 6 options for configuring your camcorder setup. They are Sound (operation sound), TV, Language, Time Setting, Format, and Default Setting. 4. Touch / on the screen to change between the pages.	

Sound

Enable or disable the keypad tone and the operation sound.

Operation	Display Screen
1. In the Setting submenu, touch [Sound] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

TV

Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL.

Wrong TV system setting may cause image flickers.

- **NTSC(60Hz):** USA, Canada, Japan, South Korea and Taiwan, etc.
- **PAL(50Hz):** UK, Europe, China, Australia, Singapore and Hong Kong, etc.

Operation	Display Screen
1. In the Setting submenu, touch [TV] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Language

Use this option to select the language of the user interface.

Operation	Display Screen
1. In the Setting submenu, touch [Language] to enter the option screen.Touch P↑/ P↓on the screen to change between the pages. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

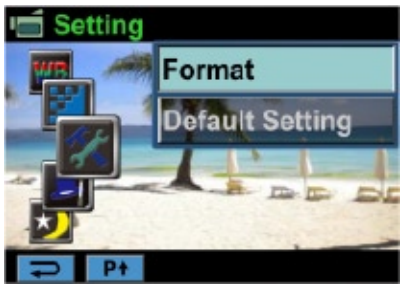
Time Setting

Operation	Display Screen
1. In the Setting submenu, touch [Time Setting] on the screen to go to the Time Setting menu.	
2. Touch Year, Month, Day, Hour, or Minute to set. 3. Adjust the numeric value by touching ▲/▼ . 4. Touch [OK] to validate the settings.	

Format

Yes: Format the built-in memory (When there is no SD card in the camcorder) / SD Card (When there is an SD card in the camcorder).

No: Do not format the built-in memory (When there is no SD card in the camcorder) / SD Card (When there is an SD card in the camcorder).

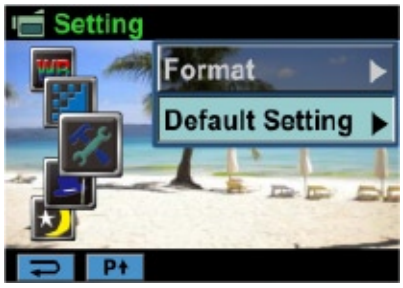
Operation	Display Screen
1. In the Setting submenu, touch [Format] on the screen to go to the format confirmation screen	
2. Touch [Yes] to execute the operation and [No] to cancel the operation.	

Note

All the data will be erased if the SD card is formatted. Make sure all the data are copied to your PC before formatting the SD card.

Default Setting

To restore the default factory setting, select this option.

Operation	Display Screen
1. In the Setting submenu, touch [Default Setting] on the screen to go to the Default Setting confirmation screen.	
2. Touch [Yes] to execute the operation and [No] to cancel the operation.	

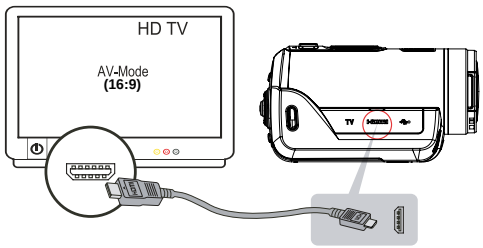
The following table indicates the camcorder's default settings

Setting	Default Factory Setting
Resolution	FHD (1080i 60) for Movie Std(10MP) for Picture
Scene	Auto
Stabilization	Off
Macro Mode	Auto
Motion Detection	Off
Slow Motion	Off
Time Lapse	Off
White Balance	Auto
Self Timer	Off
ISO	Auto
Sound	On
TV	Depends on shipping area
Language	Depends on shipping area
Volume	Level 6

Section 6
Viewing Pictures and Movies on TV

Connecting to a High-Definition 16:9(Wide) TV

1. Connect the HDMI cable to your camcorder's HDMI Out port.
2. Connect the other end of the cable to a television.
3. Set the video input source of your TV to " HDMI."

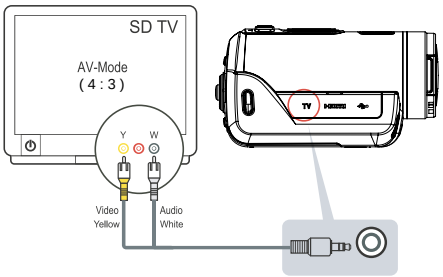


4. Use the buttons to view the stored pictures and movies on the TV.

Operation	On TV
1. Press OK Button to play movies and press it again to pause. 2. While playing movies, press Right/Left Buttons to fast forward/rewind and then release the button to stop. 3. Use Up/Down Buttons to adjust the volume. 4. In the Picture Playback mode, use Tele Button to magnify the picture. To navigate the magnified picture, use Direction Buttons to navigate the magnified picture. Press OK Button to exit the magnification mode.	

Connecting to a non-high-definition 4:3 TV

1. Connect one end of the AV cable to your camcorder's AV out port.
2. Connect the other end of the cable to a television.
3. Use direction button to view stored pictures and movie on a TV.



Section 7
Viewing Pictures and Movies on PC

Installing Bundled Software

The CD-ROM supplied with this camcorder contains 3 pieces of software.

- **ArcSoft MediaImpression** is a user-friendly application that helps you managing your media, burning your video into DVD, and uploading your videos to YouTube easily.
- **ArcSoft MediaConverter** is a powerful application that converts multiple video formats into compatible format with your camcorder.
- **Adobe Reader** is a popular program that you need to have installed to read the User's Manual. Many computer users will find they already have this software installed on their computer.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.
2. Click "**Install Application Software"**. Follow the on-screen instructions to complete the installation.

Note

The detailed information can be found in online help of all the bundled software.

Transferring Pictures or Movies to a Computer

You can transfer pictures or movies stored on your camcorder to a computer and send them in e-mails to friends or post them on the websites.

To do this you should:

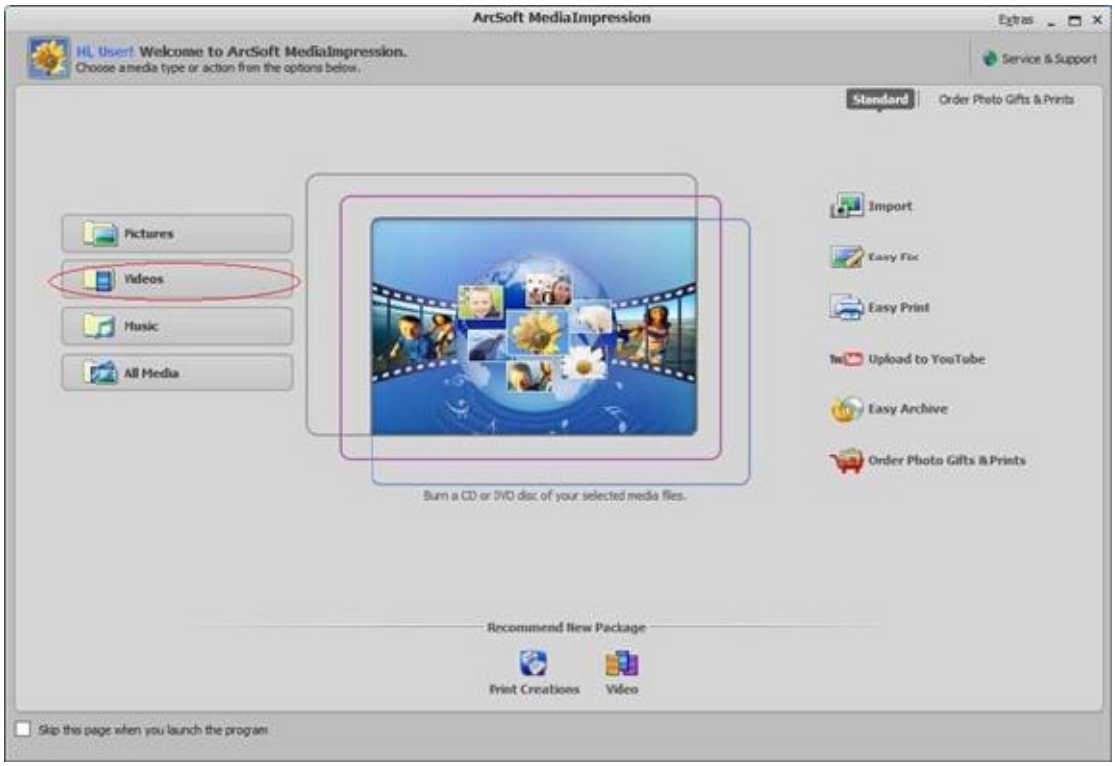
1. Connect the computer and camcorder with the supplied mini USB 2.0 cable. The LED will light up and blink.
2. After the LED stops blinking, movies and pictures can be found on your computer at "My Computer\ Removable Disk\DCIM\100MEDIA".
3. Under this folder, you can view, delete, move, or copy any movie/picture you want.
4. Use the bundled ArcSoft application software to edit the movies or pictures.

Section 8
Burning the Recorded Clip into a DVD

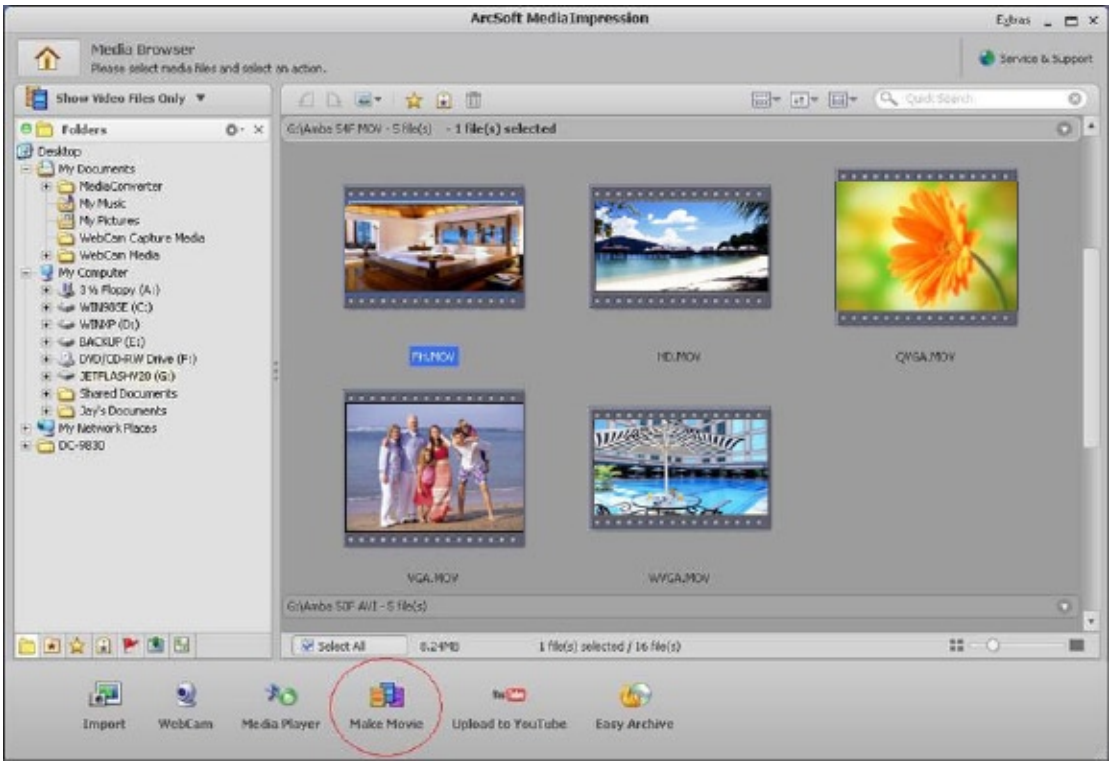
The bundled software CD contains ArcSoft MediaImpression which can be used to burn movie clips onto a DVD. You can share this DVD movie with your family or friends by using a regular DVD player.

To create a DVD:

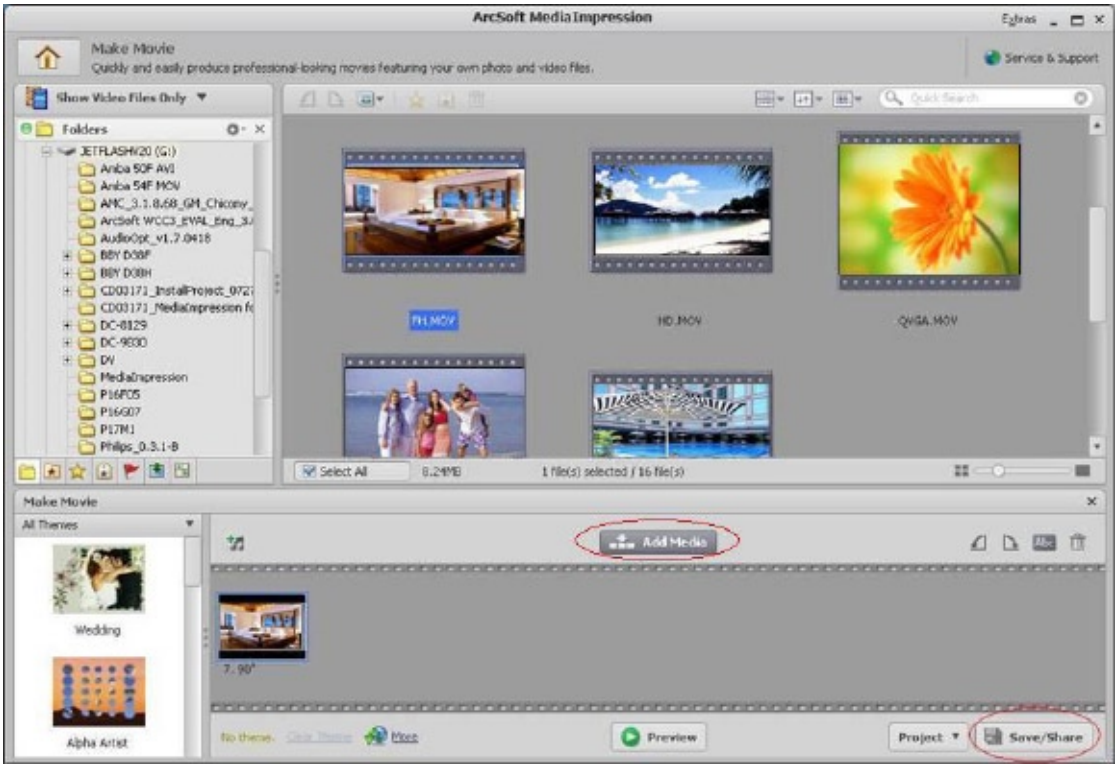
1. Install ArcSoft MediaImpression (Refer to Section 7).
2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaImpression].
3. The ArcSoft MediaImpression main screen will appear on your desktop.
4. Click on [Videos] .



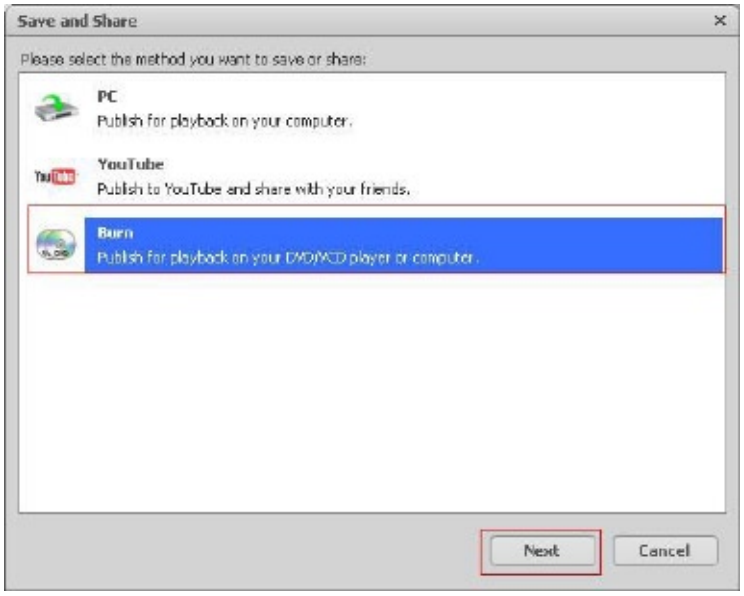
5. The operation screen will appear:
   - Select the folder that contains the video files you want to burn.
   - Select the files in the display area.
   - Click on [Make Movie] at the bottom menu.



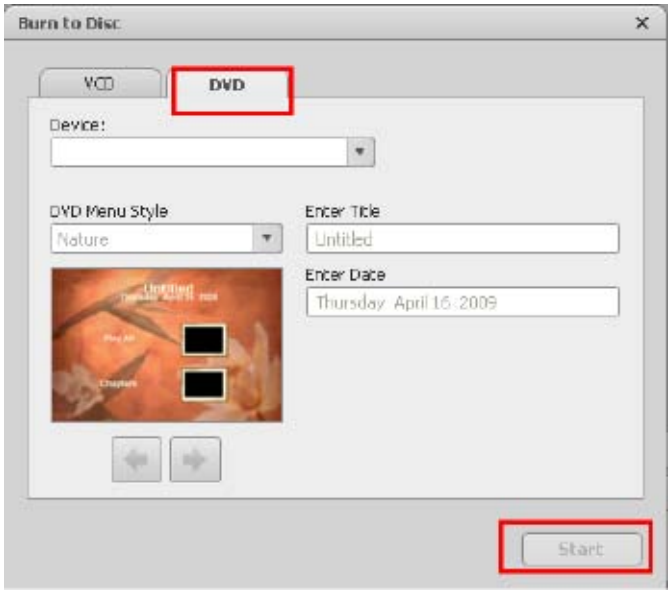
6. Click on [Add Media] ( ) to add the files into slide.
7. Click on [Save/Share].



8. Select [Burn] and click on [Next] to proceed.


Save and Share
Please select the method you want to save or share:
PC
Publish for playback on your computer.
YouTube
Publish to YouTube and share with your friends.
Burn
Publish for playback on your DVD/VCD player or computer.
Next
Cancel

9. Click on [Start] to start the VCD/DVD burning.



Note

Please insert a blank, writable VCD or DVD into the CD/DVD Writer before clicking on [Start].

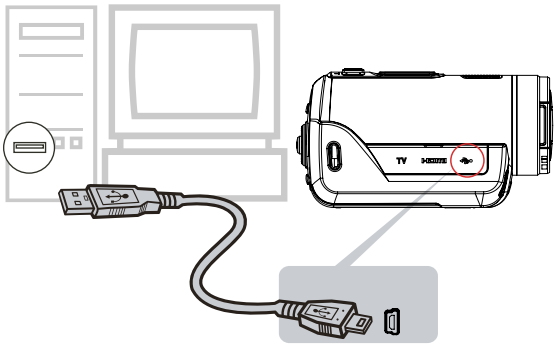
Section 9
Uploading Video Files to YouTube

The built-in **YouTube Direct** application offers you an easy way to upload your video clips to YouTube instantly. It helps you share them with your family and friends on the YouTube website. Also, the bundled software, **ArcSoft MediaImpression,** can be used to upload your video clips to YouTube.

9.1 YouTube Direct

To upload video files marked with to YouTube:

1. Select the video clips in Movie Playback Mode by pressing YouTube Direct Button .
2. Connect the camcorder to your computer by using the supplied USB cable.



3. Press YouTube Direct Button on the camcorder to launch the YouTube Direct application automatically.

(Before the computer launches YouTube Direct, you have to install the application included in the CD first.)

4. Upload video clips:

1. Press YouTube Direct Button on the camcorder again.

2. The videos clips marked with will be uploaded to the website automatically. (You may be asked to fill in your account information before uploading or you can fill in the information firstly by click on)

3. Click on “ CANCEL” to stop uploading.

To upload video files selected manually to YouTube:

1. Follow the step 2 and 3 on page 40.
2. On the thumbnail screen, click on the up/down icon to change the pages. Click on the video clips you want to upload.
3. Click on “ UPLOAD” to start uploading.

To playback the video file:

1.Double click on the video clip on the thumbnail screen.

2.Click on the Play/Pause icon to play/pause. Click on the Return icon to return to the thumbnail preview screen.

To setup your account information for YouTube:

1. Click on to go to the setup screen.

2. Fill in your account information in the blanks. Then click on “Save”.

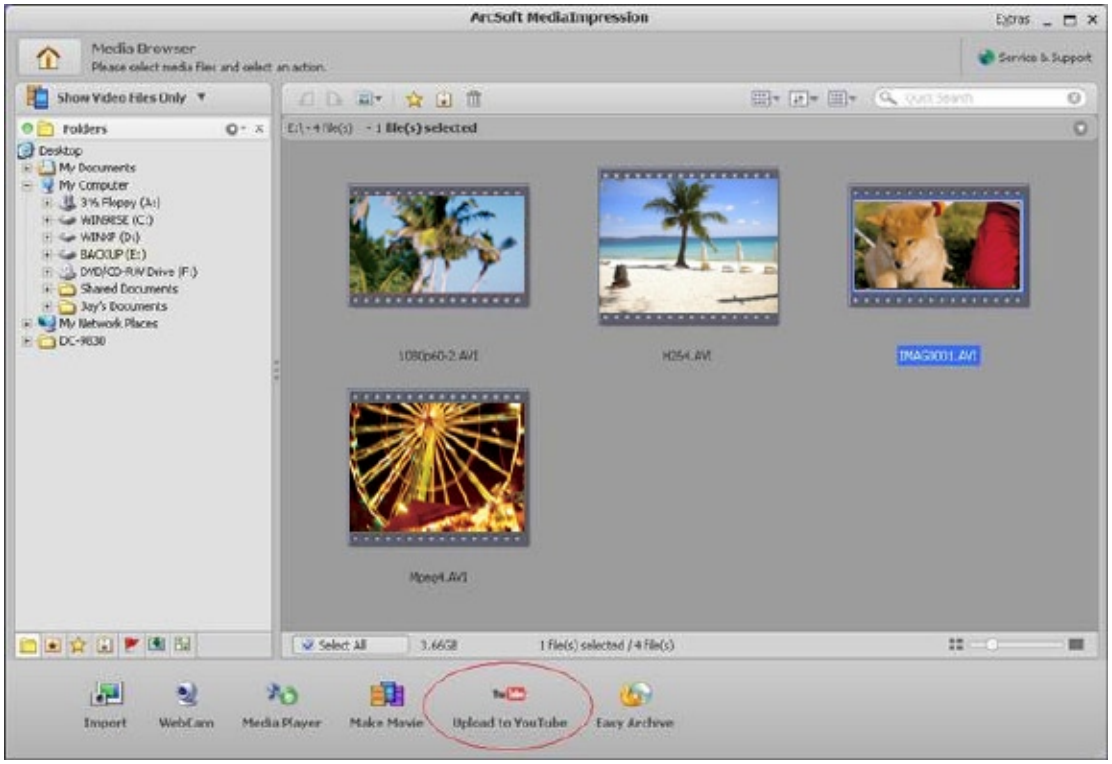
(If you do not have a account, please sign up on YouTube first.)

9.2 ArcSoft MediaImpression

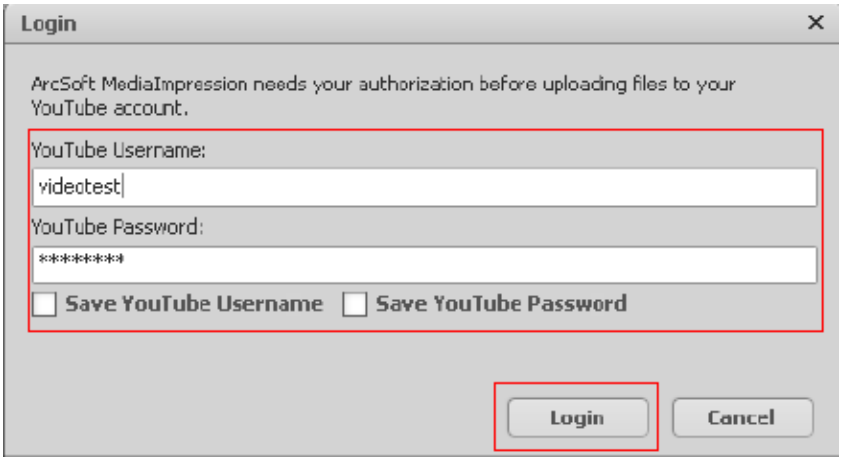
To upload video files to YouTube:

1. Install ArcSoft MediaImpression (Refer to Section 7).
2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaImpression].
3. The ArcSoft MediaImpression main screen will appear on your desktop.
4. Click on [Videos] .

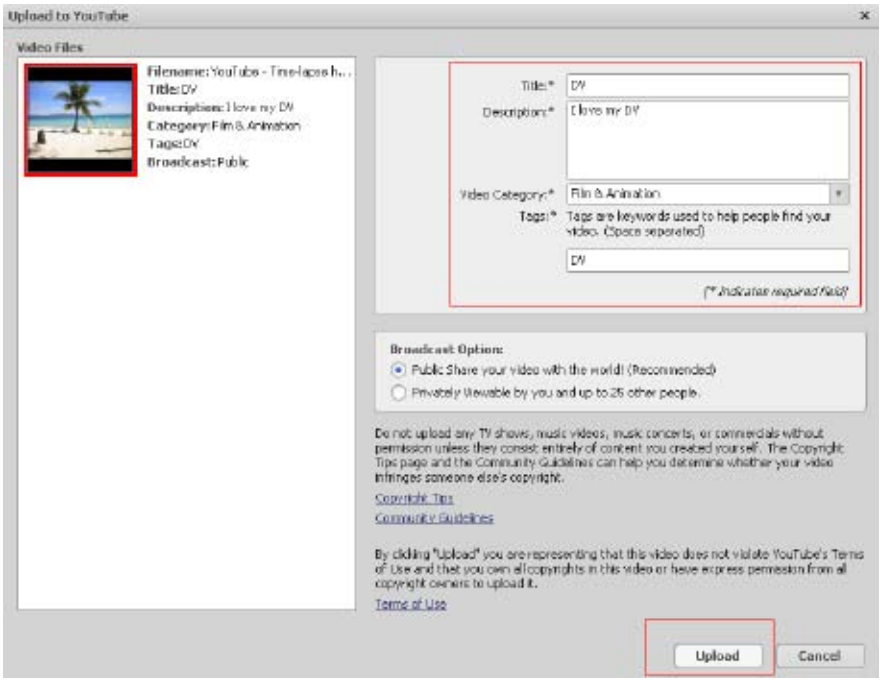
5. The operation screen will appear:
   - Select the folder that contains the video files you want to upload.
   - Select the files in the display area.
   - Click on [Upload to YouTube] at the bottom menu.

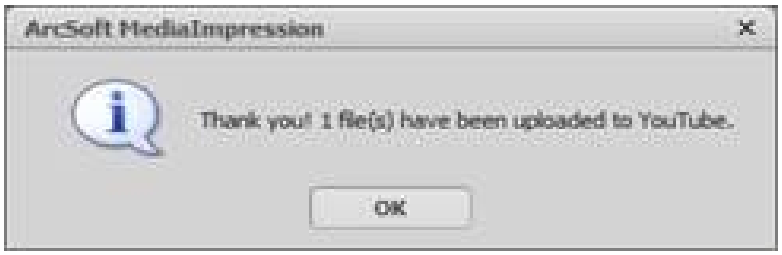


6. Fill in your YouTube account information in the blanks, and then click on [Login]



7. Fill in the information of the video clips in the blanks, and then click on [Upload]


Upload to YouTube
Video Files
Filename: YouTube - Time-lapse h...
Title: DV
Description: I love my DV
Category: Film & Animation
Tags: DV
Broadcast: Public
Title:*
DV
Description:*
I love my DV
Video Category:*
Film & Animation
Tags:*
Tags are keywords used to help people find your video. (Space seperated)
DV
(* Indicates required field)
Broadcast Option:
Public Share your video with the world! (Recommended)
Privately Viewable by you and up to 25 other people.
Do not upload any TV shows, music videos, music concerts, or commercials without permission unless they consist entirely of content you created yourself. The Copyright Tips page and the Community Guidelines can help you determine whether your video infringes someone else's copyright.
Copyright Tips
Community Guidelines
By clicking "Upload" you are representing that this video does not violate YouTube's Terms of Use and that you own all copyrights in this video or have express permission from all copyright owners to upload it.
Terms of Use
Upload
Cancel

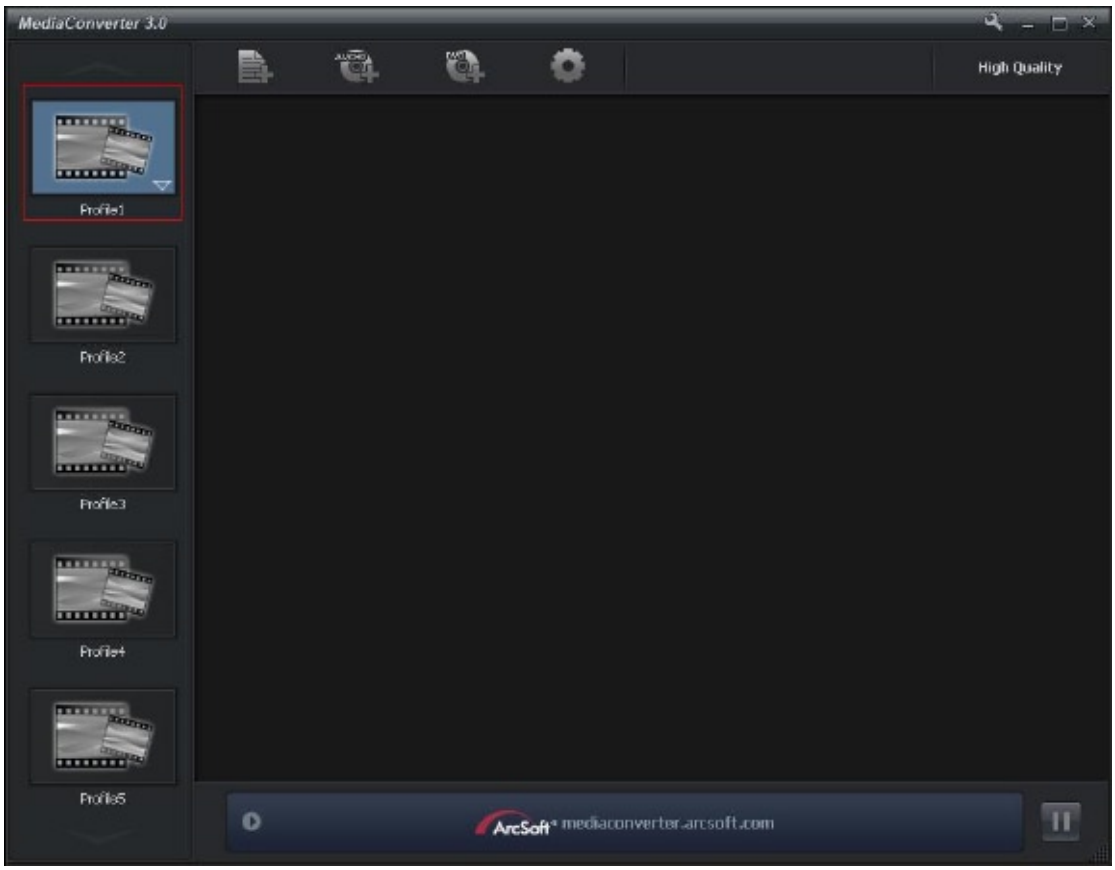


Section 10
Video File Converter

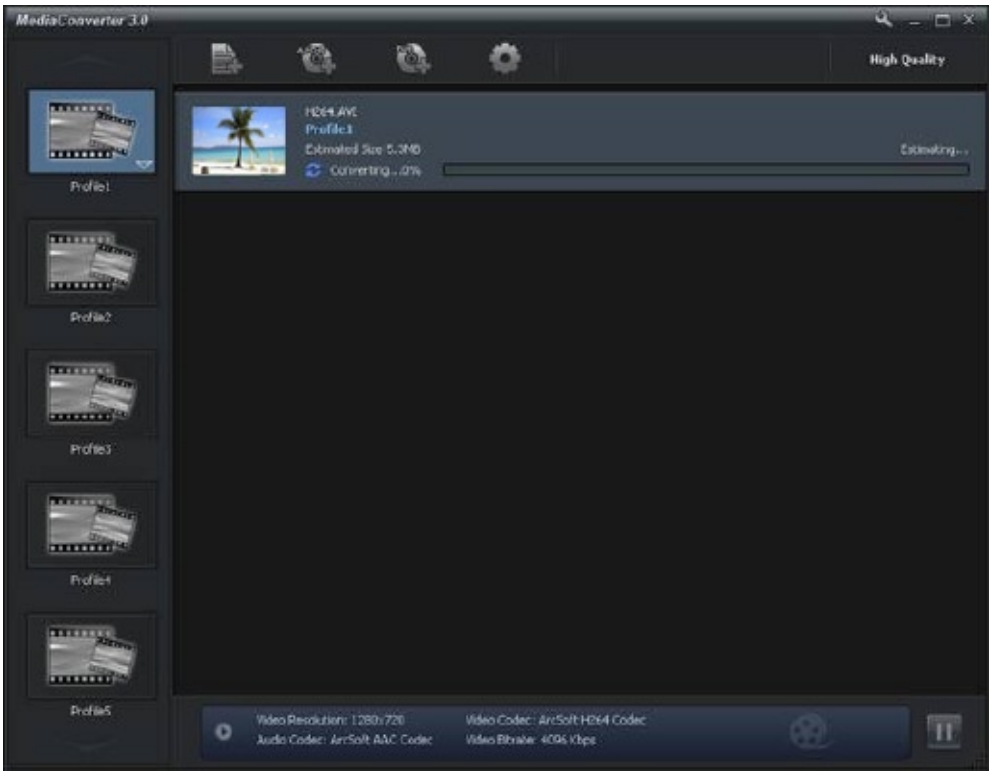
The bundled software CD contains ArcSoft MediaConverter that features video file converter to convert multiple video formats into compatible format with your camcorder. In this way, you can convert various video files formats and playback your favorite movies on your camcorder.

To convert a video file:

1. Install ArcSoft MediaConverter (Refer to section 7).
2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaConverter].
3. The ArcSoft MediaConverter main screen will appear on your desktop.
4. Select [Profile 1].



5. Select the video file you want to convert. Then, click on [Open] to convert the file.



6. The converted files will be renamed “ IMAG0001.avi”, “ IMAG0002.avi”,and so on.
7. Rename the converted file to “ IMAGXXXX. avi” before transferring the converted file to your camcorder. (XXXX should be a four figures,e.g. 0001 to 9999) (Please note that the converted file names can not be the same as the ones having existed in your camcorder, otherwise the video files in your camcorder may be overwritten.)
8. Connect your camcorder to PC and copy the converted videos to “My Computer\Removable Disk\ DCIM\100MEDIA” in your camcorder.(Under the circumstances of within an SD card in the camcorder and OS of the computer is Windows XP.)
9. After transferring the converted videos to the camcorder, Press Playback Button or press on the screen to enjoy your favorite movies.

Note

“ My Computer\Removable Disk” would be different based on OS recognit

Section 11
Specifications

Specification

Image sensor	10 Mega pixel CMOS sensor
Operation modes	Movie record, Picture record
Lens	Wide: F2.0 ~ 5.6 Tele: F2.8 ~ 7.8
Focus range	Macro mode: wide:1cm~Infinite(0.39 inch ~infinit) , tele:60cm~Infinite(23.4 inch ~infinit) Auto mode: wide:10cm~Infinite(3.9 inch ~ infinite) , tele:100cm~Infinite(39 inch ~ infinite)
Zoom	1X~100X (10X Optical zoom and 10X Digital zoom)
Shutter	Electronic
LCD monitor	3”/ 7.6cm touch LCD
Storage media	Built-in 4GB+128MB memory (partial memory is used for firmware code); SD/SDHC card slot support (up to 32GB)
Image resolution	High 4608x3456 (16M pixels) Standard 3644x2748 (10M pixels) Low 2048x1536 (3M pixels)
Movie resolution	FHD(1080i 60): 1920X1080i (60fps) FHD(1080p 30):1920X1080p (30fps) HD (720p 60): 1208X720p (60fps) HD(720p 30): 1208X720p (30fps) VGA(4:3): 640X480p (30fps)
White balance	Auto/Manual (Daylight, Fluorescent, Tungsten)
ISO	Auto/800/1600/3200
Self-timer	10 seconds delay
Flash	Flash Auto/Red-Eye-Reduction/Digital Light/Flash Off
File format	Picture: JPG Movie: AVI
Image play	Single image/Slideshow
PC interface	Mini USB 2.0 port
TV out	NTSC/PAL selectable, HDMI (up to 1080i60)
Battery	Lithium-ion rechargeable battery
Dimension	122(L) * 67.5(H) * 62.3(W) mm (4.75(L) * 2.63(H) * 2.42(W) inch)
Weight	290 g (without battery)

Section 12
Troubleshooting

Troubleshooting

1. If the LCD preview is not clear while shooting, how can the focus be adjusted?

Try to switch between Macro and Auto Mode.

2. The flash is not working.

The battery power is low.

The camcorder is in DC power mode.

3. The files on the memory card do not display smoothly when the LCD shows the "!" marking.

The "!" means the SD card is low speed or is having wrong content inside. The way to solve this condition is to format SD card by the camcorder instead of a PC (Please refer to the detailed Format instruction in Section 5).

4. Why is camcorder flash not active when taking pictures?

In the flash auto mode, the camcorder flash fires ONLY when necessary (e.g. in the dark).

5. Why do some of my indoor pictures look blurry and dark?

The camcorder extends picture exposure time under low light/ indoor condition. Keep the camcorder (and

the target subject) steady for several seconds when taking pictures. The shutter will sound when pictures are being taken.

6. How do I charge battery?

You must use the supplied AC charger or the USB cable.

The camcorder must be turned OFF; blinking light confirms charging, and the light becomes constant when the charging has been completed. Then, the light will turn itself off automatically after 5 minutes (In AC charging Mode).

Section 13
Other Information

TOSHIBA Support

Need help?

For the latest driver updates, user's manuals & FAQ's please have a look at the

TOSHIBA options & services support page:

www.mytoshiba.com.au

www.mytoshiba.co.nz

Toshiba Support Centre:

Australia : 13 30 70

New Zealand: 0800 445 439

Expert staff provides technical assistance during normal business hours, 5 days a week, excluding public holidays.

Be sure to have the following information available before you call:

- Product serial number and part number
- Place of purchase
- Applicable error messages or fault symptoms
- Operating system (if applicable)
- Installed third-party hardware and software (if applicable)

Operating Environment Conditions

Operating temperature: 5 to 35° C
Operating humidity: 20 to 80 %

(no condensation allowed)

Additional Information

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TOSHIBA reserves the right to make technical changes. TOSHIBA assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between this product and the documentation.

About the battery pack

- Use only batteries recommended by TOSHIBA as replacements. The battery pack is lithium ion batteries, which can explode if not replaced, used, handled or disposed of properly. Dispose of the

battery as required by local ordinances or regulations.

- Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius. Otherwise, the electrolyte solution might leak, battery pack performance might deteriorate and the battery life might be shortened.
- Never install or remove the battery pack without first turning off the power and disconnecting the AC adaptor.
- Use only the product connected to an AC power source or optional TOSHIBA Battery charger to charge the battery pack. Never attempt to charge the battery pack with any other charger.

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